

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2005/000620

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 C12N15/10 C12N15/66 C12P19/34

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 C12N C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/044193 A (O'CONNELL TIMOTHY ;SLONING BIO TECHNOLOGY GMBH (DE); SCHATT OCTAVI) 30 May 2003 (2003-05-30) p. 2:17-18:17, 28, 30:4-35:17, 51:5-55:4, table 2, claims -----	1-67
Y	WO 00/75368 A (DIAVIR GMBH ;SCHATT OCTAVIAN (DE)) 14 December 2000 (2000-12-14) p. 2:31-5:26, 7:25-14:27, 16:9-23, claims -----	1-67
P, X	EP 1 411 122 A (SLONING BIOTECHNOLOGY GMBH) 21 April 2004 (2004-04-21) p. 5:15-11:46, 13, 19:36-20:24, example 3 -----	1, 4, 5, 8-13, 67



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the international search

21 April 2005

Date of mailing of the international search report

03/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Puonti-Kaerlas, J

**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/EP2005/000620**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1 (complete) 9-13 (partially)

A method for manufacturing a nucleic acid molecule wherein the second oligonucleotide is immobilised after the ligation and restriction steps, and subject-matter related thereto

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2. claims: 2-8 (complete, 9-13 (partially)

As invention 1, but also including a step for immobilising the first oligonucleotide

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3. claims: 14-21 (complete)

A method for manufacturing a nucleic acid molecule using elongated oligonucleotides wherein the first part and the second part of the nucleic acid molecule to be manufactured are consecutively arranged, and subject-matter related thereto

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4. claims: 22-32 (complete)

A method for manufacturing a nucleic acid molecule using four ligation products each containing three moieties wherein the orientation of the third moiety contained in the first and second ligation product is the same and the orientation of the third moiety contained in the third and fourth ligation product is the same, the orientations being opposite with regard to the nucleic acid molecule to be manufactured, and subject-matter related thereto

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5. claims: 33-42 (complete)

A method for manufacturing a nucleic acid molecule using four ligation products each containing three moieties wherein first and second transposition products are created by cutting, ligating and recutting a first and second ligation product and a third and fourth ligation product, respectively, and subject-matter related thereto.

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6. claims: 43-53 (complete), 67 (partially)

A method for the ligation of two oligonucleotides in the presence of at least a third oligonucleotide and a capping oligonucleotide, and subject-matter related thereto.

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7. claims: 54 (complete) 56-67 (partially)

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

A method for manufacturing a nucleic acid molecule wherein the ligation product is immobilised before the restriction step, followed by addition of a further oligonucleotide, and subject-matter related thereto.

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**8. claims: 55 (complete), 56-67 (partially)**

A method for manufacturing a nucleic acid molecule wherein the ligation product is cut before immobilisation followed by addition of a further oligonucleotide, and subject-matter related thereto.

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP2005/000620

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 03044193	A	30-05-2003	EP AU CA WO	1314783 A1 2002352108 A1 2468235 A1 03044193 A2	28-05-2003 10-06-2003 30-05-2003 30-05-2003
WO 0075368	A	14-12-2000	DE WO DE EP JP	19925862 A1 0075368 A2 10081549 D2 1181395 A2 2003501069 T	14-12-2000 14-12-2000 25-07-2002 27-02-2002 14-01-2003
EP 1411122	A	21-04-2004	EP AU WO	1411122 A1 2003278103 A1 2004035781 A1	21-04-2004 04-05-2004 29-04-2004